EG&G Idaho, Inc FORM EG&G-2631 (Rev. 12-88)

Project File	Number	SEM-RWMC-91-002
EDF Serial	Number	RWMC-91-002
Functional File	Number	
	Date	August 9 1001

ENGINEERING DESIGN FILE

Project/TaskRWMC_PERFORMANCE_ASSESSMENT	
Subtask	EDf Page <u>1</u> of <u>2</u>
Subject: WELL PARAMETERS FOR INTRUDER DRILLI	NG SCENARIO AT RWMC
Abstract:	
Site-specific well parameters are provided for an inad Data on residential and farm (irrigation) wells are incidenter as a function of depth, depth to water, depth required to drill and develop well. The data are bas drilling contractor (Andrews Well Drilling Services, two experienced INEL hydrologists (T. R. Wood and J. asked to assume that a local farmer needed a well; thus well.	cluded. Parameters included are: hole of penetration into aquifer, and time ed on discussions with an Idaho Falls 75 years experience in the area), and T. Barraclough). The contractor was
Distribution (complete package)	
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WELL DATA FOR INTRUDER AT RWMC (based on input from ANDREW Well Drilling Services, Tom Wood, and Jack Barraclough)

Assume air rotary drilling (10 - 12 hours per day)

	<u>Residential</u>	<u>Irrigation</u>
Depth to Aquifer	~590′	~ 590′
Hole Diameter		
Depth - 0' - 380' 380' - 590'	8" 6"	22"* 18"
Depth of Open Hole in Aquifer (Diameter)	40′ (6")	150′ (18")
Time to Drill and Develop Well **	3-4 days (use 48 hours)	14-15 days (use 160 hours)

^{*} Air rotary is not currently used for 22" hole in this area (18" max), but ANDREW Well Drilling Services was confident technology would be available in a short time (much less than 100 years) and felt it was a reasonable assumption

^{**} Times are to be used for direct exposure to contaminated cuttings (ANDREW Well Drilling Services said they typically dump cuttings in a pile near the rig and expect the farmer to remove or spread them out).

